



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/USPTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

2

## Complete if Known

Application Number	10/667,871
Filing Date	9/22/2003
First Named Inventor	Yeo, et al.
Art Unit	2812
Examiner Name	Jennifer Kennedy

Attorney Docket Number TSM03-0553

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
JK	1	US-4,069,094	01-17-1978	Shaw, et al.	
JK	2	US-4,497,683	02-05-1985	Celler, et al.	
JK	3	US-5,155,571	10-13-1992	Wang, et al.	
JK	4	US-5,378,919	01-03-1995	Ochiai	
JK	6	US-5,479,033	12-26-1995	Baca, et al.	
JK	6	US-5,708,288	01-13-1998	Quigley, et al.	
JK	7	US-5,789,807	08-04-1998	Correale, Jr.	
JK	8	US-5,955,766	09-21-1999	Ibi, et al.	
JK	9	US-6,111,267	08-29-2000	Fischer, et al.	
JK	10	US-6,256,239 B1	07-03-2001	Akita, et al.	
JK	11	US-6,339,232 B1	01-15-2002	Takagi	
JK	12	US-6,407,406 B1	06-18-2002	Tezuka	
JK	13	US-6,475,869 B1	11-05-2002	Yu	
JK	14	US-6,518,610 B2	02-11-2003	Yang, et al.	
JK	15	US-6,521,952 B1	02-18-2003	Ker, et al.	
JK	16	US-6,525,403 B2	02-25-2003	Inaba, et al.	
JK	17	US-6,573,172 B1	06-03-2003	En, et al.	
JK	18	US-6,576,526 B2	06-10-2003	Kai, et al.	
JK	19	US-6,600,170 B1	07-29-2003	Xiang	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
JK	20	EP 0683522 A2	11-22-1995	International Business Machines Corporation	/	
JK	21	EP 0828296 A2	03-11-1998	International Business Machines Corporation		

Examiner Signature

Jennifer M. Kennedy

Date Considered

August 19, 2005

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 801.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

5/31/05 2/2

PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

2

of

2

## Complete if Known

Application Number	10/667,871
Filing Date	9/22/2003
First Named Inventor	Yeo, et al.
Art Unit	2812
Examiner Name	Jennifer Kennedy

Attorney Docket Number

TSM03-0553

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (If known)			
JKL	22	US-6,617,643 B1	09-09-2003	Goodwin-Johansson	
JKL	23	US-6,633,070 B2	10-14-2003	Miura, et al.	
JKL	24	US-6,657,278 B1	12-02-2003	Karlsson, et al.	
JKL	25	US-6,720,619 B1	04-13-2004	Chen, et al.	
JKL	26	US-6,724,019 B2	04-20-2004	Oda, et al.	
JKL	27	US-6,759,717 B2	07-06-2004	Sagarwala, et al.	
JKL	28	US-6,762,448 B1	07-13-2004	Lin, et al.	
JKL	29	US-6,794,764 B1	09-21-2004	Kamal, et al.	
JKL	30	US-6,803,641 B2	10-12-2004	Papa Rao, et al.	
JKL	31	US-2002/0031890 A1	03-14-2002	Watanabe, et al.	
JKL	32	US-2002/0074598 A1	06-20-2002	Doyle, et al.	
JKL	33	US-2002/0125471 A1	09-12-2002	Fitzgerald, et al.	
JKL	34	US-2004/0173815 A1	09-09-2004	Yeo, et al.	
JKL	35	US-2005/0029601 A1	02-10-2005	Chen, et al.	

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
JKL	36	LEITZ, C. W., et al., "Hole mobility enhancements in strained Si/Si <sub>1-x</sub> Ge <sub>x</sub> p-type metal-oxide-semiconductor field-effect transistors grown on relaxed Si <sub>1-x</sub> Ge <sub>x</sub> (x<y) virtual substrates," Applied Physics Letters, December 17, 2001, pp. 4246-4248, Volume 79, Number 25.	
JKL	37	LEITZ, C. W., et al., "Channel Engineering of SiGe-Based Heterostructures for High Mobility MOSFETs," Mat. Res. Soc. Symp. Proc., 2002, pp. 113-118, Vol. 686.	
JKL	38	LIU, K. C., et al., "A Novel Sidewall Strained-Si Channel nMOSFET," IEDM, 1999, pp. 63-66.	

Examiner  
Signature

Jennifer M. Kennedy

Date  
Considered

August 5/19, 2005

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>5</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/08b (08-03)

Approved for use through 06/30/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
to a collection of information unless it displays a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

 <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>			
<i>Substitute for form 1449B/PTO</i>		<b>Complete if Known</b>	
		Application Number	10/667,871
		Filing Date	September 22, 2003
		First Named Inventor	Yeo, et al.
		Art Unit	2812
		Examiner Name	Jennifer M. Kennedy
Sheet	1	of	1
		Attorney Docket Number	
		TSM03-0553	

Examiner Signature	Dennis M. Kennedy	Date Considered	August 19, 2005
-----------------------	-------------------	--------------------	-----------------

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**Applicant's unique citation designation number (optional).** <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*